

# SEQUENCE LISTING

<110> Hamawy, Majed M.

<120> Marker Proteins For Diagnosing Smooth Muscle Cell Abnormalities

<130> 960296.99187

<140>

<141>

<150> 60/450,515

<151> 2003-02-27

<160> 2

<170> PatentIn Ver. 2.0

<210> 1

<211> 472

<212> PRT

<213> Homo sapiens

<400> 1

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Glu	Ala	Met	Lys	Gly	Pro	Arg	Glu	Glu	Ile	Val	Tyr	Leu	Pro	Cys	Ile
			20					25					30		

Tyr	Arg	Asn	Thr	Gly	Thr	Glu	Ala	Pro	Asp	Tyr	Leu	Ala	Thr	Val	Asp
		35					40					45			

Val	Asp	Pro	Lys	Ser	Pro	Gln	Tyr	Cys	Gln	Val	Ile	His	Arg	Leu	Pro
	50					55					60				

Met	Pro	Asn	Leu	Lys	Asp	Glu	Leu	His	His	Ser	Gly	Trp	Asn	Thr	Cys
65					70					75					80

Ser	Ser	Cys	Phe	Gly	Asp	Ser	Thr	Lys	Ser	Arg	Thr	Lys	Leu	Val	Leu
			85						90					95	

Pro	Ser	Leu	Ile	Ser	Ser	Arg	Ile	Tyr	Val	Val	Asp	Val	Gly	Ser	Glu
		100					105						110		

Pro	Arg	Ala	Pro	Lys	Leu	His	Lys	Val	Ile	Glu	Pro	Lys	Asp	Ile	His
	115						120					125			

Ala	Lys	Cys	Glu	Leu	Ala	Phe	Leu	His	Thr	Ser	His	Cys	Leu	Ala	Ser	130	135	140	
Gly	Glu	Val	Met	Ile	Ser	Ser	Leu	Gly	Asp	Val	Lys	Gly	Asn	Gly	Lys	145	150	155	160
Gly	Gly	Phe	Val	Leu	Leu	Asp	Gly	Glu	Thr	Phe	Glu	Val	Lys	Gly	Thr	165	170	175	
Trp	Glu	Arg	Pro	Gly	Gly	Ala	Ala	Pro	Leu	Gly	Tyr	Asp	Phe	Trp	Tyr	180	185	190	
Gln	Pro	Arg	His	Asn	Val	Met	Ile	Ser	Thr	Glu	Trp	Ala	Ala	Pro	Asn	195	200	205	
Val	Leu	Arg	Asp	Gly	Phe	Asn	Pro	Ala	Asp	Val	Glu	Ala	Gly	Leu	Tyr	210	215	220	
Gly	Ser	His	Leu	Tyr	Val	Trp	Asp	Trp	Gln	Arg	His	Glu	Ile	Val	Gln	225	230	235	240
Thr	Leu	Ser	Leu	Lys	Asp	Gly	Leu	Ile	Pro	Leu	Glu	Ile	Arg	Phe	Leu	245	250	255	
His	Asn	Pro	Asp	Ala	Ala	Gln	Gly	Phe	Val	Gly	Cys	Ala	Leu	Ser	Ser	260	265	270	
Thr	Ile	Gln	Arg	Phe	Tyr	Lys	Asn	Glu	Gly	Gly	Thr	Trp	Ser	Val	Glu	275	280	285	
Lys	Val	Ile	Gln	Val	Pro	Pro	Lys	Lys	Val	Lys	Gly	Trp	Leu	Leu	Pro	290	295	300	
Glu	Met	Pro	Gly	Leu	Ile	Thr	Asp	Ile	Leu	Leu	Ser	Leu	Asp	Asp	Arg	305	310	315	320
Phe	Leu	Tyr	Phe	Ser	Asn	Trp	Leu	His	Gly	Asp	Leu	Arg	Gln	Tyr	Asp	325	330	335	
Ile	Ser	Asp	Pro	Gln	Arg	Pro	Arg	Leu	Thr	Gly	Gln	Leu	Phe	Leu	Gly	340	345	350	
Gly	Ser	Ile	Val	Lys	Gly	Gly	Pro	Val	Gln	Val	Leu	Glu	Asp	Glu	Glu	355	360	365	
Leu	Lys	Ser	Gln	Pro	Glu	Pro	Leu	Val	Val	Lys	Gly	Lys	Arg	Val	Ala	370	375	380	

Gly Gly Pro Gln Met Ile Gln Leu Ser Leu Asp Gly Lys Arg Leu Tyr  
 385 390 395 400

Ile Thr Thr Ser Leu Tyr Ser Ala Trp Asp Lys Gln Phe Tyr Pro Asp  
 405 410 415

Leu Ile Arg Glu Gly Ser Val Met Leu Gln Val Asp Val Asp Thr Val  
 420 425 430

Lys Gly Gly Leu Lys Leu Asn Pro Asn Phe Leu Val Asp Phe Gly Lys  
 435 440 445

Glu Pro Leu Gly Pro Ala Leu Ala His Glu Leu Arg Tyr Pro Gly Gly  
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Asp Cys Ser Ser Asp Ile Trp Ile  
 465 470

<210> 2

<211> 472

<212> PRT

<213> Rattus norvegicus

<400> 2

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Glu Ala Met Lys Gly Pro Arg Glu Glu Ile Val Tyr Leu Pro Cys Ile  
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Tyr Arg Asn Thr Gly Ile Glu Ala Pro Asp Tyr Leu Ala Thr Val Asp  
 35 40 45

Val Asp Pro Lys Ser Pro His Tyr Ser Gln Val Ile His Arg Leu Pro  
 50 55 60

Met Pro His Leu Lys Asp Glu Leu His His Ser Gly Trp Asn Thr Cys  
 65 70 75 80

Ser Ser Cys Phe Gly Asp Ser Thr Lys Ser Arg Asp Lys Leu Ile Leu  
 85 90 95

Pro Ser Ile Ile Ser Ser Arg Ile Tyr Val Val Asp Val Gly Ser Glu  
 100 105 110

Pro Arg Ala Pro Lys Leu His Lys Val Ile Glu Pro Asn Glu Ile His

115		120		125
Ala Lys Cys Asn Leu Gly Asn Leu His Thr Ser His Cys Leu Ala Ser				
130		135		140
Gly Glu Val Met Ile Ser Ser Leu Gly Asp Pro Gln Gly Asn Gly Lys				
145		150		155
				160
Gly Gly Phe Val Leu Leu Asp Gly Glu Thr Phe Glu Val Lys Gly Thr				
		165		170
				175
Trp Glu Lys Pro Gly Gly Glu Ala Pro Met Gly Tyr Asp Phe Trp Tyr				
		180		185
				190
Gln Pro Arg His Asn Ile Met Val Ser Thr Glu Trp Ala Ala Pro Asn				
		195		200
				205
Val Phe Lys Asp Gly Phe Asn Pro Ala His Val Glu Ala Gly Leu Tyr				
		210		215
				220
Gly Ser His Ile His Val Trp Asp Trp Gln Arg His Glu Ile Ile Gln				
225		230		235
				240
Thr Leu Gln Met Lys Asp Gly Leu Ile Pro Leu Glu Ile Arg Phe Leu				
		245		250
				255
His Asp Pro Asp Ala Thr Gln Gly Phe Val Gly Cys Ala Leu Ser Ser				
		260		265
				270
Asn Ile Gln Arg Phe Tyr Lys Asn Glu Gly Gly Thr Trp Ser Val Glu				
		275		280
				285
Lys Val Ile Gln Val Pro Ser Lys Lys Val Lys Gly Trp Met Leu Pro				
		290		295
				300
Glu Met Pro Gly Leu Ile Thr Asp Ile Leu Leu Ser Leu Asp Asp Arg				
305		310		315
				320
Phe Leu Tyr Phe Ser Asn Trp Leu His Gly Asp Ile Arg Gln Tyr Asp				
		325		330
				335
Ile Ser Asn Pro Lys Lys Pro Arg Leu Thr Gly Gln Ile Phe Leu Gly				
		340		345
				350
Gly Ser Ile Val Lys Gly Gly Ser Val Gln Val Leu Glu Asp Gln Glu				
		355		360
				365
Leu Thr Cys Gln Pro Glu Pro Leu Val Val Lys Gly Lys Arg Val Pro				

